



# INDUSTRIAL INSTALLATION FOR THE PRODUCTION OF ECOLOGICALLY FRIENDLY FUEL



# THE HYDRO FUEL

- The patented technology developed is both unique and unparalleled in the world,
- The industrial high-performance complex produces:
  - Environmentally friendly fuel from heavy fuel oils and water.
  - The fuel has highly improved energy characteristics.
  - Suitable for use in marine ship engines and thermal electric power plants.
  - Can be stand stored for a long period of time with no loss of characteristics.





# THE HYDRO FUEL

- Ecologically friendly fuel from fuel oil.
- Improved fuel filterability and pumpability characteristics.
- When using this fuel, the content of harmful substances in the exhaust gases is reduced by more than 10 folds.



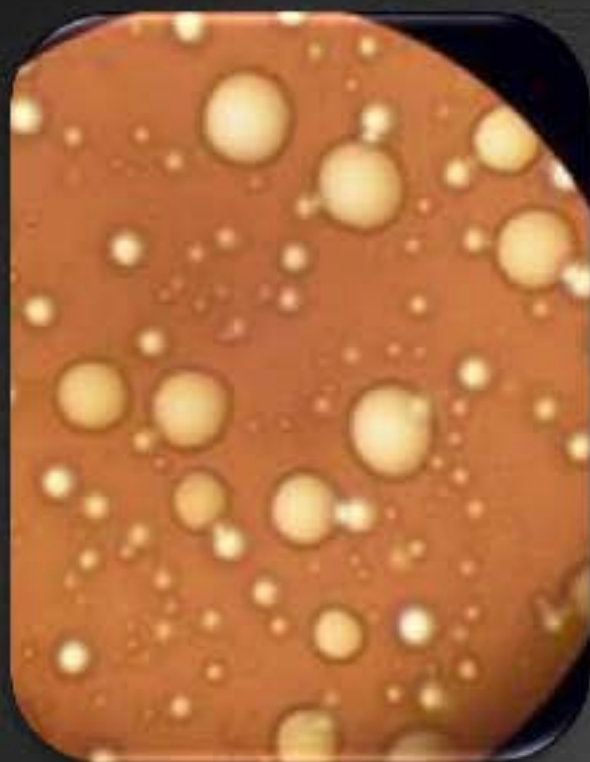
# ECOLOGICAL FRIENDLY FUEL

## COMPARATIVE ANALYSIS OF THE CHARACTERISTICS OF NON-WATERED AND WATERED FUEL WHEN COMBUSTION

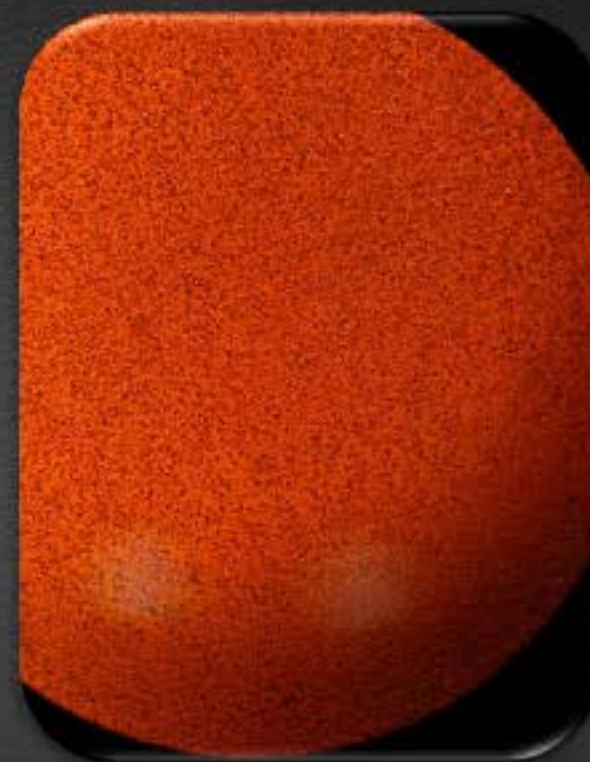
	EXHAUST TEMPERATURE $t^{\circ}$	OUTSIDE TEMPERATURE $t^{\circ}$	CO <sub>2</sub> %	O <sub>2</sub> %	EFFICIENCY FACTOR BRUTTO %	EFFICIENCY FACTOR NETTO %	CO ppm
WITHOUT WATER	233,2	27,8	8,9	10,2	80,2	84,8	30
WATER CONTENT 20%	163,4	33,3	8,1	9,1	86,1	91,1	16



# ECOLOGICAL FRIENDLY FUEL



WATER OIL FUEL — 20% WATER.  
THE DROPLET SIZE IS 100 OR MORE MICRONS.  
RAW ON CAVITATION EQUIPMENT.

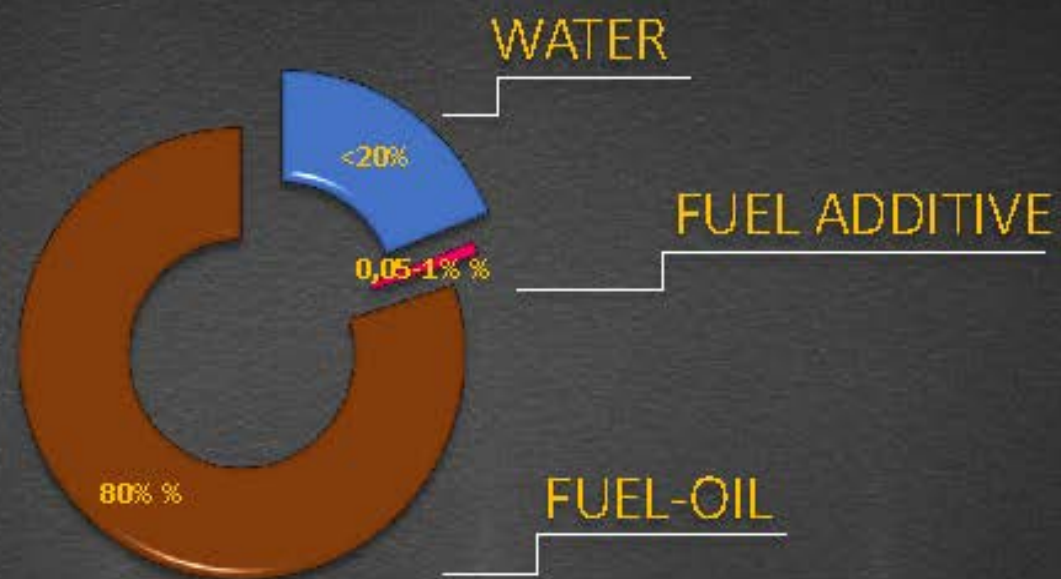


WATER OIL FUEL — 20% WATER.  
THE DROPLET SIZE IS 0.1-1 MICRONS.  
MAGNIFICATION 500X.  
PROCESSED ON CAVITATION EQUIPMENT.



# ECOLOGICAL FRIENDLY FUEL

## COMPONENT COMPOSITION





- Normal fuel M100 burns at a burning nosel at approximately at 1350 degrees.
- The hydro fuel M100 burns at a burning nosel at a temperature reaching 1890 degrees.
- Thus, producing higher efficiency IE using less fuel to achieve the same result.
- The burning process protects the burning fuel injectors of engines.





An example of coking of nozzles of burners operating on boiler – furnace fuel No.1 (Normal Fuel) and No.2 (Hydro fuel)

# ECOLOGICAL FRIENDLY FUEL

- Lab tests and field analysis were carried out on the use of Hydro fuel.
- The installation is capable of recovering water-flooded fuel oil
- The Emission of pollutants in exhaust gases has decreased by 10 folds.
- Hydro fuel was recommended for use in many sectors like marine, energy, cement factory, and tar production factories.

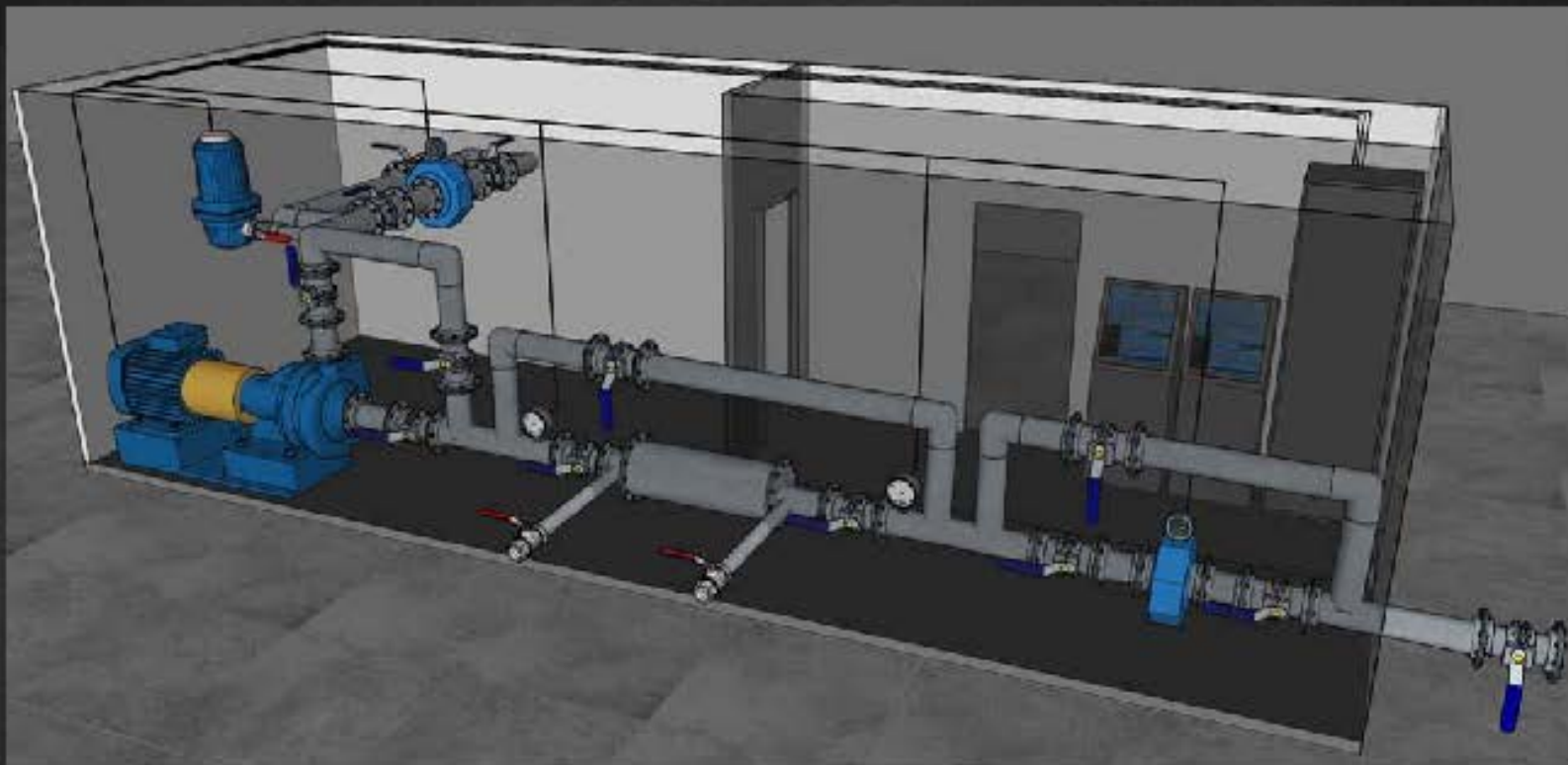
# FACTORY BASED COMPLEX COMPOSITION



PRODUCTION STAGE



# CONTAINER BASED COMPLEX COMPOSITION



CONTAINER VERSION

# Summary of the Hydro Fuel Benefits

- More cost-effective as 20% of the fuel is water. (saving considerable cost)
- Less hazardous exhaust content.
- Cleaner and more ecological fuel (better sale value to end-user customers)
- Protecting your engine and giving long-lasting life. ( saving maintenance costs for customers)
- More efficient fuel usage as hydro fuel burns at higher degrees (leading to cost savings to end-user customers)

